

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference HF/5-22820/C	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/EP 03/51000	International filing date (day/month/year) 15/12/2003	(Earliest) Priority Date (day/month/year) 23/12/2002
Applicant CIBA SPECIALTY CHEMICALS HOLDING INC.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

☐ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

☐ None of the figures.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/51000

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C08F226/04 C11D3/37 D06P5/08 //(C08F226/04,220:14),
(C08F226/04,220:30),(C08F226/04,220:18)

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C08F C11D D06P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 232 519 A (CASSELLA FARBWERKE MAINKUR AG) 19 August 1987 (1987-08-19) claims 1-4,7,9,10; examples 6,7 page 1, line 4 -page 2, line 35 page 5, line 23 - line 28 page 10, line 5 - line 27 page 11, line 6 - line 10 page 17, line 14 -page 22, line 22 ---	1-11, 17-19
X	US 2 923 701 A (SCHULLER WALTER H ET AL) 2 February 1960 (1960-02-02) claims 1-6,8-12; examples 12,13,15,16 ---	1-9,11, 17-19
X	EP 0 685 591 A (NICCA CHEMICAL CO) 6 December 1995 (1995-12-06) claims 6-10; example 4 page 2, line 30 -page 4, line 10 ---	1-5, 9-11, 17-19
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Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

° Special categories of cited documents:

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

G document member of the same patent family

Date of the actual completion of the international search

24 May 2004

Date of mailing of the international search report

16/06/2004

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/51000

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 1 372 787 A (CALGON CORP) 6 November 1974 (1974-11-06) claims; example I page 1, line 34 - line 41 ---	1-5, 7-11, 17-19
X	US 4 305 860 A (IOVINE CARMINE P ET AL) 15 December 1981 (1981-12-15) claims; examples I-II ---	1-11
X	US 4 299 898 A (WILLIAMS MEURIG W ET AL) 10 November 1981 (1981-11-10) example VII column 2, line 45 - line 68 ---	1-5,7,8, 11
X	DD 296 307 A (AKAD WISSENSCHAFTEN DDR) 28 November 1991 (1991-11-28) claims; examples 1,2; tables 1,2 ---	1-6, 11-13, 15,16
A	PATENT ABSTRACTS OF JAPAN vol. 1996, no. 04, 30 April 1996 (1996-04-30) -& JP 07 316590 A (LION CORP), 5 December 1995 (1995-12-05) abstract ---	1-13,15, 16
A	WO 01/79407 A (UNILEVER PLC ; LEVER HINDUSTAN LTD (IN); UNILEVER NV (NL)) 25 October 2001 (2001-10-25) claims 1-7 page 1, line 14 -page 4, line 25 page 8, line 27 -page 12, line 12 ---	1-13,15, 16
A	WO 02/20709 A (UNILEVER PLC ; LEVER HINDUSTAN LTD (IN); UNILEVER NV (NL)) 14 March 2002 (2002-03-14) claims 1,3,4; example 1; tables 1,3 page 12, line 1 - line 18 page 14, line 18 - line 23 -----	1-11,14

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 03/51000

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0232519	A	19-08-1987	AT 56028 T DE 3673806 D1 EP 0232519 A2 JP 1118509 A US 4753999 A ZA 8700139 A	15-09-1990 04-10-1990 19-08-1987 11-05-1989 28-06-1988 26-08-1987
US 2923701	A	02-02-1960	NONE	
EP 0685591	A	06-12-1995	WO 9516815 A1 JP 2697996 B2 JP 6002288 A US 5653772 A DE 69323776 D1 DE 69323776 T2 EP 0685591 A1	22-06-1995 19-01-1998 11-01-1994 05-08-1997 08-04-1999 02-09-1999 06-12-1995
GB 1372787	A	06-11-1974	BE 787380 A1 CA 980066 A1 CH 534772 A DE 2239208 A1 FR 2148569 A1 IT 961938 B LU 65881 A1 NL 7210946 A	09-02-1973 23-12-1975 15-03-1973 22-02-1973 23-03-1973 10-12-1973 12-02-1973 13-02-1973
US 4305860	A	15-12-1981	CA 1159980 A1 GB 2082598 A , B	03-01-1984 10-03-1982
US 4299898	A	10-11-1981	NONE	
DD 296307	A	28-11-1991	DD 296307 A5	28-11-1991
JP 07316590	A	05-12-1995	NONE	
WO 0179407	A	25-10-2001	AU 7390901 A BR 0110048 A CA 2403571 A1 WO 0179407 A1 EP 1272601 A1 US 2003017963 A1 US 2002045558 A1	30-10-2001 27-05-2003 25-10-2001 25-10-2001 08-01-2003 23-01-2003 18-04-2002
WO 0220709	A	14-03-2002	US 6326343 B1 AU 1496002 A BR 0113677 A CA 2420389 A1 WO 0220709 A2 EP 1399532 A2 JP 2004508456 T	04-12-2001 22-03-2002 13-01-2004 14-03-2002 14-03-2002 24-03-2004 18-03-2004